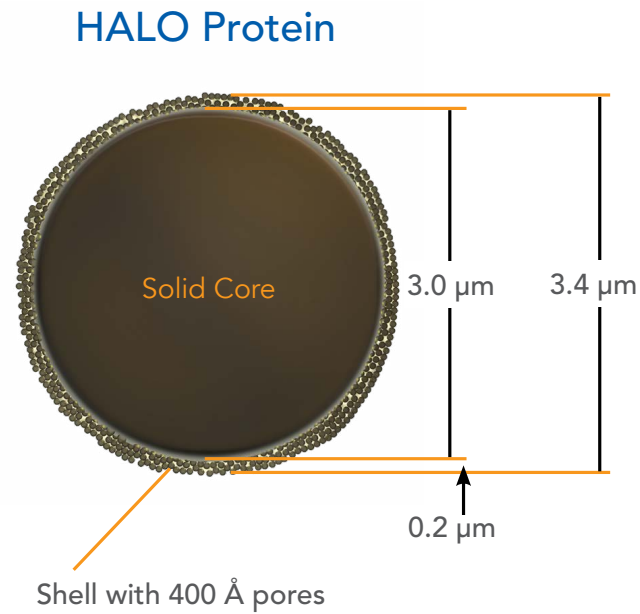
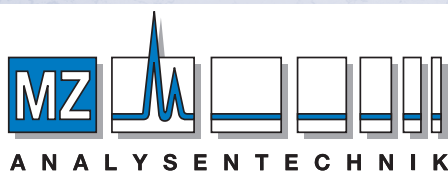
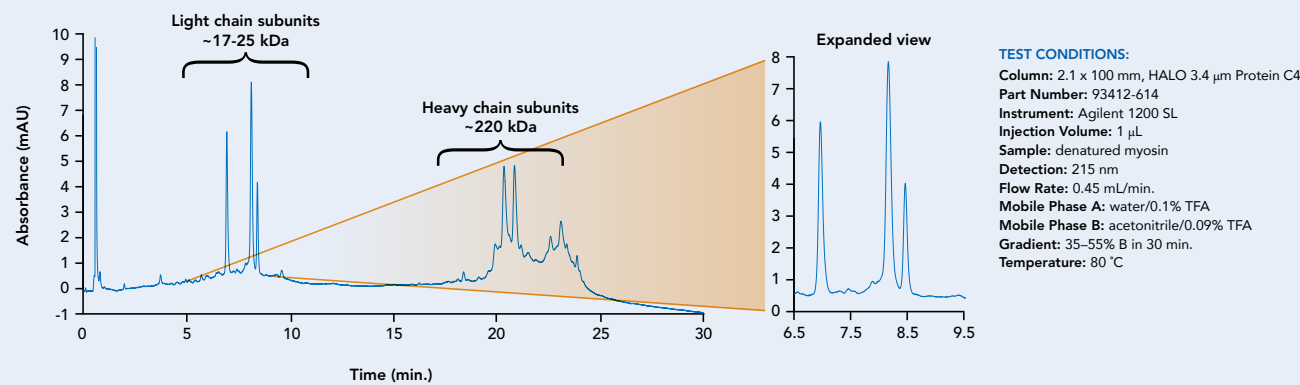


- 400 Ångstrom pores to provide unrestricted pore access for polypeptides and proteins as large as 500 kDa
- 3.4 µm Fused-Core particles with a very thin 0.2 µm outer porous shell
 - Provides narrower peaks and better recoveries for large biomolecules (vs. smaller pore sizes and non-core particles)
 - Allows HALO Protein columns to be used with both UHPLC and HPLC instrumentation for fast bioseparations at moderate back pressures
- C4 and sterically-protected ES-C18 phases
 - Excellent high temperature stability (up to 90 °C) for improved peak shape and recovery
- 2 µm inlet frit
- Pressure limit, 600 bar/9000 psi



LARGE PROTEIN SEPARATION USING HALO PROTEIN C4 FUSED-CORE COLUMN

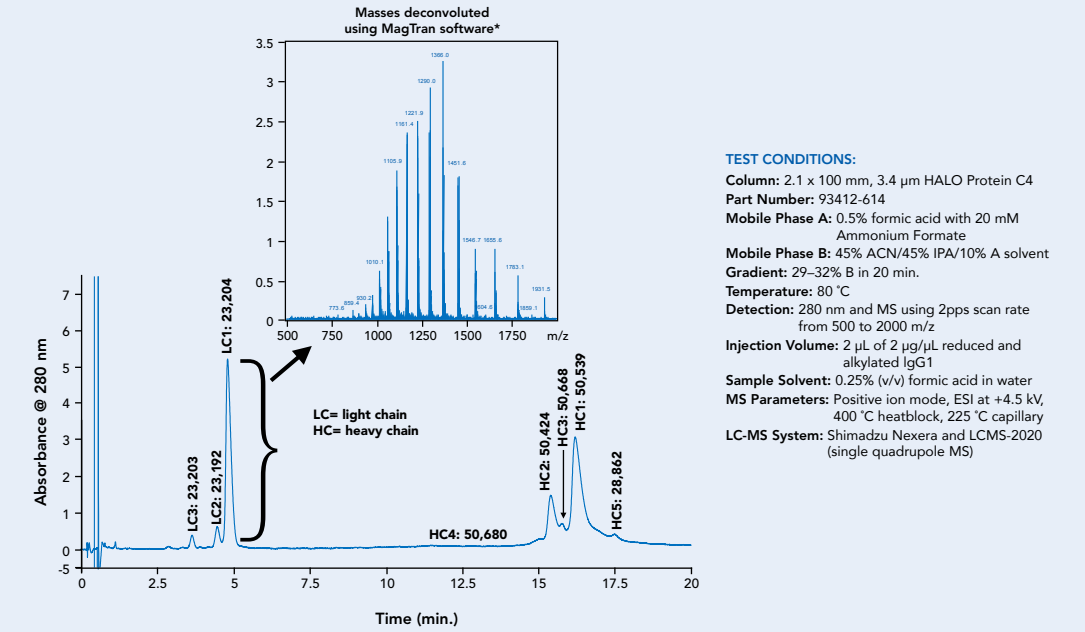
Figure DD. High resolution separation of light and heavy chains of a denatured contractile protein (whole myosin from purified rabbit skeletal muscle) using HALO Protein C4 at 80 °C.



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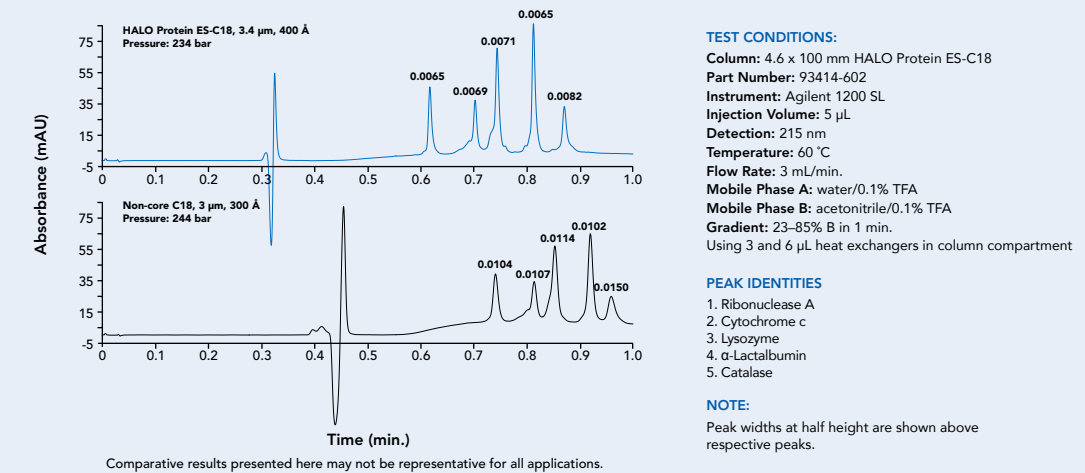
HIGH RESOLUTION OF LIGHT AND HEAVY CHAIN VARIANTS OF IgG1

Figure EE. Very high resolution is obtained between variants of light and heavy chains of a reduced and alkylated monoclonal antibody (IgG1) sample using a HALO Protein C4 column.



ULTRAFAST PROTEIN SEPARATION USING HALO PROTEIN ES-C18

Figure FF. An ultrafast protein separation is achieved on a HALO Protein ES-C18 400 Ångstrom column in less than 1 minute.



HALO PROTEIN C4 PROVIDES NARROWER AND TALLER PEAKS THAN TOTALLY POROUS COLUMN

Figure GG. HALO Protein C4 dramatically outperforms a conventional non-core C4 column, delivering narrower and taller peaks with improved recovery of holotransferrin, apomyoglobin, catalase and enolase.

